

IN THE CLAIMS:

1. (original): A computer network, comprising:

a plurality of interconnected nodes, each one of said plurality of nodes having a corresponding data terminal equipment (DTE) device coupled thereto, wherein at least one of said corresponding DTE devices comprises:

a computing system located at a first location;

a human interface remotely located remotely from said first location, said human interface comprising a display device and an input/output ("I/O") device;

a first interface device operable to couple to said computing system;

a second interface device operable to couple to said display device and said I/O device of said human interface; and

at least one transmission line operable to couple said first and second interface devices;

wherein said first interface device is operable to receive from said computing system a video signal to be transmitted to said display device and a non-video signal to be transmitted to said I/O device, and to convert each of said video signal and said non-video signal into a format suitable for transmission to said second interface device;

wherein said first interface device is operable to transmit said converted video signal and said converted non-video signal to said second interface device via said at least one transmission line; and

wherein said second interface device is operable to receive said converted video signal and said converted non-video signal from said first interface device and to provide said video signal and said non-video signal to said display device and said I/O device, respectively.

2. (original): The computer network according to claim 1,

wherein the computing system is operable to generate the video signal and the non-video signal in a first format suitable for transmission to the human interface; and

wherein the first interface device is operable to receive the video signal and non-video signal in the first format and convert each of the video signal and the non-video signal into a second format suitable for transmission to said second interface device.

3. (original): The computer network according to claim 2,
wherein the second format is suitable for transmission over distances greater than 10 feet.

4. (original): The computer network according to claim 2,
wherein the second interface device is operable to receive the video signal and non-video signal in the second format and convert the video signal and non-video signal back to the first format suitable for transmission to the human interface.

5. (original): The computer network according to claim 1,
wherein the first interface device is operable to convert the video signal into a first format suitable for transmission to said second interface device; and
wherein the first interface device is operable to convert the non-video signal into a second different format suitable for transmission to said second interface device.

6. (original): The computer network according to claim 1,
wherein said first interface device is operable to encode each of said video signal and said non-video signal into a format suitable for transmission to said second interface device; and

wherein said second interface device is operable to decode said encoded video signal and said encoded non-video signal to reproduce said video signal and said non-video signal, wherein said video signal and said non-video signal are provided to said display device and said I/O device, respectively.

7. (original): The computer network according to claim 1,

wherein said first interface device is operable to encode said video signal into an encoded video signal having a format suitable for transmission to said second interface device;

wherein said first interface device is operable to encode said non-video signal into an encoded non-video signal having a format suitable for transmission to said second interface device;

wherein said second interface device is operable to decode said encoded video signal to reproduce said video signal; and

wherein said second interface device is operable to decode said encoded non-video signal to reproduce said non-video signal.

8. (original): The computer network according to claim 1,

wherein said at least one transmission line comprises a first transmission line and a second transmission line;

wherein said converted video signal is transmitted to said second interface device via said first transmission line; and

wherein said converted non-video signal is transmitted to said second interface device via said second transmission line.

9. (original): The computer network according to claim 1,

wherein said first interface device is operable to combine said video signal and said non-video signal into a combined video/non-video signal having a format suitable for transmission to said second interface device;

wherein said combined video/non-video signal is transmitted to said second interface device via said at least one transmission line; and

wherein said second interface device is operable to receive said combined video/non-video signal from said first interface device and separate said video signal and said non-video signal therefrom for respective propagation to said display device and said I/O device.

10. (original): The computer network according to claim 1,

wherein said first interface device includes an encoding circuit for encoding the video signal and the non-video signal into an encoded format suitable for transmission to said second interface device; and

wherein said second interface device includes a decoding circuit for receiving the video signal and the non-video signal in the encoded format and decoding the video signal and the non-video signal.

11. (original): The computer network according to claim 10,

wherein said encoding circuit is operable to combine said video signal and said non-video signal into a combined video/non-video signal having a format suitable for transmission to said second interface device; and

wherein said decoding circuit is operable to receive said combined video/non-video signal from said first interface device and separate said video signal and said non-video signal therefrom for respective propagation to said display device and said I/O device.

12. (original): The computer network according to claim 1, wherein said at least one transmission line coupling said first and second interface devices is a 4-wire cable.

13. (original): The computer network according to claim 1, further comprising at least one cable for interconnecting said plurality of nodes.

14. (original): The computer network according to claim 1, wherein said computing system further comprises a computer chassis and at least one computing system component housed in said computer chassis and coupled to said first interface device.

15. (original): The computer network according to claim 1, wherein said I/O device of said human interface further comprises either a printer, a keyboard, or a mouse.

16. (original): The computer network according to claim 1, wherein the human interface is located more than 10 feet from the computing system.

17. (original): The computer network according to claim 1,
wherein said second interface is operable to receive from said I/O device a second non-video signal to be transmitted to said computing system, and is operable to convert said second non-video signal into a format suitable for transmission to said first interface device;

wherein said converted second non-video signal is transmitted to said first interface device via said at least one transmission line; and

wherein said first interface device is operable to receive said converted second non-video signal from said second interface device and provide said second non-video signal to the computing system.

18. (original): The computer network according to claim 17,
wherein the I/O device is operable to generate the second non-video signal in a first format suitable for transmission to the computing system; and

wherein the second interface device is operable to convert the second non-video signal into a second format suitable for transmission to said first interface device.

19. (original): The computer network according to claim 18,
wherein the second format is suitable for transmission over distances greater than 10 feet.

20. (original): The computer network according to claim 18,
wherein the first interface device is operable to receive the second non-video signal in the second format and convert the second non-video signal back to the first format suitable for transmission to the computing system.

21. (original): The computer network according to claim 1, wherein at least two of said plurality of nodes are positioned at a common location, wherein said at least one

corresponding DTE device comprises at least two DTE devices corresponding to each of said at least two nodes, wherein said at least two DTE devices comprise at least two commonly located computing systems with corresponding at least two human interfaces, wherein said at least two human interfaces are each located remotely from said at least two commonly located computing systems.

22. (original): The computer network according to claim 21, wherein said computing systems respectively coupled to each one of said at least two nodes are housed together in a shared computer room.

23. (original): The computer network according to claim 21, wherein said computing systems respectively coupled to each one of said at least two nodes are housed together in a common support structure located in a shared computer room.

24. (original): The computer network according to claim 23, wherein said common support structure is a computer rack.

25. (original): The computer network according to claim 21, wherein said at least two human interfaces are remotely located from each other.

26. (original): A computer network, comprising:
a plurality of interconnected nodes, each one of said nodes having a DTE device coupled thereto and wherein said DTE device coupled to a first one of said nodes comprises:

- a computing system located at a first location;
- a human interface located at a second location, said second location remotely located relative to said first location;
- a first interface device coupled to said computing system;
- a second interface device coupled to said human interface; and
- at least one transmission line coupling said first and second interface devices;

wherein said first interface device is operable to receive human interface signals generated by said computing system and convert the human interface signals into a format suitable for transmission to said second interface device; and

wherein said second interface device is operable to receive said human interface signals from the first interface device and convert the human interface signals into a format suitable for transmission to the human interface.

27. (original): The computer network according to claim 26,
wherein the computing system is operable to generate the human interface signals in a first format; and

wherein said second interface device is operable to receive said human interface signals from the first interface device and convert the human interface signals back into the first format for transmission to the human interface.

28. (original): The computer network according to claim 26,
wherein the computing system is operable to generate the human interface signals in a first format suitable for transmission to the human interface; and

wherein the first interface device is operable to convert the human interface signals into a second format suitable for transmission to said second interface device.

29. (original): The computer network according to claim 28,
wherein the second format is suitable for transmission over distances greater than 10 feet.

30. (original): The computer network according to claim 28,
wherein the second interface device is operable to receive the human interface signals in the second format and convert the human interface signals in the second format back to the first format suitable for transmission to the human interface.

31. (original): The computer network according to claim 26,

wherein said first interface device is operable to encode said human interface signals into a format suitable for transmission to said second interface device; and

wherein said second interface device is operable to decode said encoded human interface signals to reproduce said human interface signals, wherein said human interface signals are provided to said human interface.

32. (original): The computer network according to claim 26,
wherein the human interface comprises a plurality of human interface devices;
and

wherein the human interface signals comprise a plurality of human interface signals corresponding to the plurality of human interface devices.

33. (original): The computer network according to claim 32,
wherein said first interface device is operable to receive the plurality of human interface signals generated by said computing system and convert the plurality of human interface signals into a format suitable for transmission to said second interface device;
and

wherein said second interface device is operable to receive said plurality of human interface signals from the first interface device and convert the plurality of human interface signals into a format suitable for transmission to the human interface.

34. (original): The computer network according to claim 33,
wherein the computing system is operable to generate the plurality of human interface signals in a first format suitable for transmission to the human interface; and
wherein the first interface device is operable to convert each of the plurality of human interface signals into a second format suitable for transmission to said second interface device.

35. (original): The computer network according to claim 34,
wherein the second format is suitable for transmission over distances greater than 10 feet.

36. (original): The computer network according to claim 34,
wherein the second interface device is operable to receive the plurality of human interface signals in the second format and convert each of the plurality of human interface signals in the second format back to the first format suitable for transmission to the human interface.

37. (original): The computer network according to claim 32,
wherein the plurality of human interface signals includes a first human interface signal and a second human interface signal;
wherein the first interface device is operable to convert the first human interface signal into a first format suitable for transmission to said second interface device; and
wherein the first interface device is operable to convert the second human interface signal into a second different format suitable for transmission to said second interface device.

38. (original): The computer network according to claim 32,
wherein the plurality of human interface signals includes a first human interface signal and a second human interface signal;
wherein said at least one transmission line comprises a first transmission line and a second transmission line;
wherein said first human interface signal is transmitted to said second interface device via said first transmission line; and
wherein said second human interface signal is transmitted to said second interface device via said second transmission line.

39. (original): The computer network according to claim 32,
wherein said first interface device is operable to combine said plurality of human interface signals into a combined signal having a format suitable for transmission to said second interface device;

wherein said combined signal is transmitted to said second interface device via said at least one transmission line; and

wherein said second interface device is operable to receive said combined signal from said first interface device and separate said plurality of human interface signals for respective propagation to said plurality of human interface devices.

40. (original): The computer network according to claim 26,

wherein the computing system generates a plurality of human interface signals corresponding to a plurality of human interface devices;

wherein said first interface device is operable to receive each of said plurality of human interface signals generated by said computing system and convert each of said plurality of human interface signals into a format suitable for transmission to said second interface device; and

wherein said second interface device is operable to receive each of said plurality of converted human interface signals from the first interface device and convert each of the plurality of converted human interface signals into a format suitable for transmission to the human interface.

41. (original): The computer network according to claim 40,

wherein said first interface device is operable to combine said plurality of human interface signals into a combined signal having a format suitable for transmission to said second interface device;

wherein said combined signal is transmitted to said second interface device via said at least one transmission line; and

wherein said second interface device is operable to receive said combined signal from said first interface device and separate said plurality of human interface signals for respective propagation to said plurality of human interface devices.

42. (original): The computer network according to claim 41,

wherein said human interface comprises a display device and at least one input/output ("I/O"): device;

wherein the second interface device is coupled to the display device and the at least one I/O device of said human interface; and

wherein the plurality of human interface signals include a video signal intended for the display device and at least one I/O signal intended for the I/O device.

43. (original): The computer network according to claim 26,
wherein said human interface comprises a display device and an input/output ("I/O") device;
wherein the second interface device is coupled to the display device and the I/O device of said human interface; and
wherein the human interface signals include a video signal intended for the display device and an I/O signal intended for the I/O device.

44. (original): The computer network according to claim 43, wherein said I/O device of said human interface comprises either a keyboard or a mouse.

45. (original): The computer network according to claim 43,
wherein said first interface device is operable to combine said video signal and said I/O signal into a combined video / I/O signal having a format suitable for transmission to said second interface device;
wherein said combined video / I/O signal is transmitted to said second interface device via said at least one transmission line; and
wherein said second interface device is operable to receive said combined video / I/O signal from said first interface device and separate said video signal and said I/O signal therefrom for respective propagation to said display device and said I/O device.

46. (original): The computer network according to claim 26,
wherein said human interface comprises a display device and a plurality of input/output ("I/O") devices;
wherein the second interface device is coupled to the display device and the plurality of I/O devices of said human interface; and

wherein the human interface signals include a video signal intended for the display device and a plurality of I/O signals intended for the plurality of I/O devices.

47. (original): The computer network according to claim 26, wherein said at least one transmission line coupling said first and second interface devices is a 4-wire cable.

48. (original): The computer network according to claim 26, wherein the human interface is located more than 10 feet from the computing system.

49. (original): The computer network according to claim 26,
wherein the human interface includes a human interface device;
wherein said second interface is operable to receive, from the human interface device, second human interface signals to be transmitted to said computing system, and is operable to convert said second human interface signals into a format suitable for transmission to said first interface device;

wherein said converted second human interface signals are transmitted to said first interface device via said at least one transmission line; and

wherein said first interface device is operable to receive said converted second human interface signals from said second interface device and provide said second human interface signals to the computing system.

50. (original): The computer network according to claim 49,
wherein the human interface device is operable to generate the second human interface signals in a first format suitable for transmission to the computing system; and

wherein the second interface device is operable to convert the second human interface signals into a second format suitable for transmission to said first interface device.

51. (original): The computer network according to claim 50,
wherein the second format is suitable for transmission over distances greater than 10 feet.

52. (original): The computer network according to claim 50, wherein the first interface device is operable to receive the second human interface signals in the second format and convert the second human interface signals back to the first format suitable for transmission to the computing system.

53. (original): The computer network according to claim 26, wherein at least two of said nodes are positioned at a common location, and wherein said computer network includes a plurality of commonly located computing systems.

54. (original): The computer network according to claim 53, wherein said computing systems respectively coupled to each one of said at least two nodes are housed together in a common support structure located in a shared computer room.

55. (original): A computer network, comprising:
a plurality of interconnected nodes, each one of said nodes having a DTE device coupled thereto and wherein said DTE device coupled to a first one of said nodes comprises:
a computing system located at a first location;
a human interface located at a second location, said second location remotely located relative to said first location, said human interface comprising a display device and an input/output ("I/O") device;
a first interface device coupled to said computing system;
a second interface device coupled to said display device and said I/O device of said human interface; and
a transmission line coupling said first and second interface devices;
wherein said first interface device is operable to convert signals generated by said computing system into a format suitable for transmission to said second interface device, and wherein said second interface device is operable to convert signals received from said first interface device into a format suitable for transmission to said human interface.

56. (original): A computer network, comprising:
a plurality of interconnected nodes, each one of said nodes having a DTE device coupled thereto and wherein said DTE device coupled to a first one of said nodes comprises:
a computing system located at a first location;
a human interface located at a second location, said second location remotely located relative to said first location, said human interface comprising a display device and an input/output ("I/O") device;
a first interface device coupled to said computing system;
a second interface device coupled to said display device and said I/O device of said human interface; and
at least one transmission line coupling said first and second interface devices;
wherein said first interface device is operable to receive, from said computing system, a video signal to be transmitted to said display device, and to convert said video signal into a format suitable for transmission to said second interface device;
wherein said converted video signal is transmitted to said second interface device via said at least one transmission line; and
wherein said second interface device is operable to receive said converted video signal from said first interface device and provide said video signal to said display device.

57. (original): The computer network according to claim 56,
wherein the computing system is operable to generate the video signal in a first format suitable for transmission to the human interface; and
wherein the first interface device is operable to convert the video signal into a second format suitable for transmission to said second interface device.

58. (original): The computer network according to claim 57,

wherein the second format is suitable for transmission over distances greater than 10 feet.

59. (original): The computer network according to claim 57,
wherein the second interface device is operable to receive the video signal in the second format and convert the video signal back to the first format suitable for transmission to the human interface.

60. (original): The computer network according to claim 56,
wherein said second interface device is operable to receive, from said I/O device, a non-video signal to be transmitted to said computing system, and to convert said non-video signal into a format suitable for transmission to said first interface device;
wherein said converted non-video signal is transmitted to said first interface device via said at least one transmission line; and
wherein said first interface device is operable to receive said converted non-video signal from said second interface device and provide said non-video signal to the computing system.

61. (original): The computer network according to claim 60,
wherein the I/O device is operable to generate the non-video signal in a first format suitable for transmission to the computing system; and
wherein the second interface device is operable to convert the non-video signal into a second format suitable for transmission to said first interface device.

62. (original): The computer network according to claim 61,
wherein the second format is suitable for transmission over distances greater than 10 feet.

63. (original): The computer network according to claim 61,

wherein the first interface device is operable to receive the non-video signal in the second format and convert the non-video signal back to the first format suitable for transmission to the computing system.

64. (original): The computer network according to claim 60,
wherein said first interface device is operable to receive, from said computing system, a non-video signal to be transmitted to said I/O device, and to convert said non-video signal into a format suitable for transmission to said second interface device;
wherein said converted non-video signal is transmitted to said second interface device via said at least one transmission line; and
wherein said second interface device is operable to receive said converted non-video signal from said first interface device and provide said non-video signal to said I/O device.

65. (original): The computer network according to claim 56,
wherein said first interface device is operable to receive, from said computing system, a non-video signal to be transmitted to said I/O device, and to convert said non-video signal into a format suitable for transmission to said second interface device;
wherein said converted non-video signal is transmitted to said second interface device via said at least one transmission line; and
wherein said second interface device is operable to receive said converted non-video signal from said first interface device and provide said non-video signal to said I/O device.

66. (original): A computer network, comprising:
a plurality of interconnected nodes, each one of said nodes having a DTE device coupled thereto and wherein said DTE device coupled to a first one of said nodes comprises:
a computing system located at a first location;
a human interface located at a second location, said second location remotely located relative to said first location;

a first interface device coupled to said computing system;
a second interface device coupled to said human interface; and
a transmission line coupling said first and second interface devices;
wherein said second interface device is operable to receive human interface signals generated by said human interface and convert the human interface signals into a format suitable for transmission to said first interface device; and
wherein said first interface device is operable to receive said converted human interface signals from the second interface device and convert the converted human interface signals into a format suitable for transmission to the computing system.

67. (original): The computer network according to claim 66,
wherein said first interface device is operable to receive said converted human interface signals from the second interface device and convert the converted human interface signals into the human interface signals for transmission to the computing system.

68. (original): The computer network according to claim 66,
wherein the human interface is operable to generate the human interface signals in a first format suitable for transmission to the computing system; and
wherein the second interface device is operable to convert the human interface signals into a second format suitable for transmission to said first interface device.

69. (original): The computer network according to claim 68,
wherein the second format is suitable for transmission over distances greater than 10 feet.

70. (original): The computer network according to claim 68,
wherein the first interface device is operable to receive the human interface signals in the second format and convert the human interface signals back to the first format suitable for transmission to the computing system.

71. (original): The computer network according to claim 66,
wherein said first interface device is operable to receive human interface signals generated by said computing system and convert the human interface signals into a format suitable for transmission to said second interface device; and
wherein said second interface device is operable to receive said converted human interface signals from the first interface device and convert the converted human interface signals into a format suitable for transmission to the human interface.

A1
CONT'D

72. (new): A computer network, comprising:
a plurality of interconnected nodes, each one of the plurality of nodes having a corresponding data terminal equipment (DTE) device coupled thereto, wherein at least one of the corresponding DTE devices comprises:
a computing system located at a first location;
a human interface located remotely from the first location, the human interface comprising a display device and an input/output ("I/O") device;
a first interface device operable to couple to the computing system;
a second interface device operable to couple to the display device and the I/O device of the human interface; and
a transmission medium operable to couple the first and second interface devices;
wherein the first interface device is operable to receive information from the computing system comprising video information intended for display on the display device and non-video information intended for the I/O device, and to convert the information into a format suitable for transmission to the second interface device;
wherein the first interface device is operable to transmit the converted information to the second interface device via the transmission medium; and
wherein the second interface device is operable to receive the converted information from the first interface device and to provide the video information and the non-video information for transmission to the display device and the I/O device, respectively.

A/
CONT'D

73. (new): The computer network according to claim 72, wherein the video information comprises a video signal.

74. (new): The computer network according to claim 73, wherein the video signal comprises an analog signal.

75. (new): The computer network according to claim 74, wherein the analog signal comprises a Red signal, a Blue signal, and a Green signal.

76. (new): The computer network according to claim 74, wherein the analog signal further comprises a Horizontal Sync signal and a Vertical Sync signal.

77. (new): The computer network according to claim 72, wherein the non-video information comprises a non-video signal.

78. (new): A computer network according to claim 72,
wherein the computing system is operable to generate the information in a first format suitable for transmission to the human interface; and
wherein the first interface device is operable to convert the information into a second format suitable for transmission to the second interface device.

79. (new): A computer network according to claim 78,
wherein the second format is suitable for transmission over distances greater than 10 feet.

80. (new): A computer network according to claim 78,
wherein the second interface device is operable to receive the information in the second format and convert the information back to the first format suitable for transmission to the human interface.

AI
CONT'D

81. (new): A computer network according to claim 72,
wherein the format is suitable for transmission over distances greater than 10 feet.

82. (new): A computer network according to claim 72, wherein, in receiving information from the computing system comprising video information intended for display on the display device and non-video information intended for the I/O device, the first interface device is operable to receive a first signal comprising the video information and a second signal comprising the non-video information.

83. (new): A computer network according to claim 82, wherein, in converting the information into a format suitable for transmission to the second interface device, the first interface device is operable to combine the first signal and the second signal to generate a combined signal for transmission to the second interface device.

84. (new): A computer network according to claim 72,
wherein the first interface device is operable to encode each of the video information and the non-video information into the format suitable for transmission to the second interface device; and

wherein the second interface device is operable to decode the encoded video information and the encoded non-video information to reproduce the video information intended for display on the display device and the non-video information intended for the I/O device, wherein the video information and the non-video information are provided to the display device and the I/O device, respectively.

85. (new): A computer network according to claim 72,
wherein the first interface device is operable to encode the video information into an encoded signal having a format suitable for transmission to the second interface device;

wherein the first interface device is operable to encode the non-video information into an encoded non-video signal having a format suitable for transmission to the second interface device;

AI
CONT'D

wherein the second interface device is operable to decode the encoded video signal to reproduce the video information; and

wherein the second interface device is operable to decode the encoded non-video signal to reproduce the non-video information.

86. (new): A computer network according to claim 72,

wherein the first interface device is operable to combine the video information and the non-video information into a combined video / non-video signal having the format suitable for transmission to the second interface device;

wherein the combined video/non-video signal is transmitted to the second interface device via the transmission medium; and

wherein the second interface device is operable to receive the combined video/non-video signal from the first interface device and separate the video information and the non-video information therefrom for respective propagation to the display device and the I/O device.

87. (new): A computer network according to claim 72,

wherein the first interface device includes an encoding circuit for encoding the video information and the non-video information into an encoded format suitable for transmission to the second interface device;

wherein the second interface device includes a decoding circuit for receiving the video information and the non-video information in the encoded format and decoding the video information and the non-video information.

88. (new): A computer network according to claim 72, wherein the transmission medium coupling the first and second interface devices is a cable comprising 4 wires.

89. (new): A computer network according to claim 72, and further comprising a cable for interconnecting the plurality of nodes.

A1
CONT'D

90. (new): A computer network according to claim 72, wherein the I/O device of the human interface further comprises either a printer, a keyboard, or a mouse.

91. (new): A computer network according to claim 72, wherein the human interface is located more than 10 feet from the computing system.

92. (new): A computer network according to claim 72,
wherein the second interface is operable to receive from the I/O device second information comprising second non-video information to be transmitted to the computing system and to convert the second non-video information into a format suitable for transmission to the first interface device;

wherein the converted second non-video information is transmitted to the first interface device via the transmission medium; and

wherein the first interface device is operable to receive the converted second non-video information from the second interface device and provide the second non-video information to the computing system.

93. (new): A computer network according to claim 92,
wherein the I/O device is operable to generate the second information in a first format suitable for transmission to the computing system; and

wherein the second interface device is operable to convert the second non-video information into a second format suitable for transmission to the first interface device.

94. (new): A computer network according to claim 93,
wherein the second format is suitable for transmission over distances greater than 10 feet.

95. (new): A computer network according to claim 93,
wherein the first interface device is operable to receive the second non-video information in the second format and convert the second non-video information back to the first format suitable for transmission to the computing system.

A1
CONT'D

96. (new): A computer network according to claim 72, wherein at least two of the nodes are positioned at a common location, and wherein the computer network includes a plurality of commonly located computing systems.

97. (new): A computer network according to claim 96, wherein the computing systems respectively coupled to each one of the at least two nodes are housed together in a common support structure located in a shared computer room.

98. (new): A computer network, comprising:

a plurality of interconnected nodes, each one of the nodes having a DTE device coupled thereto and wherein the DTE device coupled to a first one of the nodes further comprises:

a computing system located at a first location;

a human interface located at a second location, the second location remotely located relative to the first location;

a first interface device coupled to the computing system; and

a second interface device coupled to the human interface;

a transmission medium coupling the first and second interface devices;

wherein the first interface device is operable to receive human interface signals comprising video information and non-video information generated by the computing system and convert the human interface signals into a format suitable for transmission to the second interface device; and

wherein the second interface device is operable to receive the human interface signals from the first interface device and convert the human interface signals into a format suitable for transmission to the human interface.

99. (new): The computer network according to claim 98, wherein the human interface signals comprise a video signal comprising the video information and a non-video signal comprising the non-video information.

A1
CONT'D

100. (new): The computer network according to claim 99, wherein the video signal comprises an analog signal.

101. (new): The computer network according to claim 100, wherein the analog signal comprises a Red signal, a Blue signal, and a Green signal.

102. (new): The computer network according to claim 101, wherein the analog signal further comprises a Horizontal Sync signal and a Vertical Sync signal.

103. (new): A computer network according to claim 99,
wherein the computing system is operable to generate the human interface signals in a first format; and

wherein the second interface device is operable to receive the human interface signals from the first interface device and convert the human interface signals back into the first format for transmission to the human interface.

104. (new): A computer network according to claim 98,
wherein the computing system is operable to generate the human interface signals in a first format suitable for transmission to the human interface; and

wherein the first interface device is operable to convert the human interface signals into a second format suitable for transmission to the second interface device.

105. (new): A computer network according to claim 104,
wherein the second format is suitable for transmission over distances greater than 10 feet.

106. (new): A computer network according to claim 104,
wherein the second interface device is operable to receive the human interface signals in the second format and convert the human interface signals in the second format back to the first format suitable for transmission to the human interface.

A1
CONT'D

107. (new): A computer network according to claim 98,
wherein the first interface device is operable to encode the human interface
signals into a format suitable for transmission to the second interface device; and
wherein the second interface device is operable to decode the encoded human
interface signals to reproduce the human interface signals, including the video
information and the non-video information, and wherein the human interface signals are
provided to the human interface.

108. (new): A computer network according to claim 98,
wherein the human interface comprises a plurality of human interface devices;
and
wherein the human interface signals comprise a plurality of human interface
signals corresponding to the plurality of human interface devices.

109. (new): A computer network according to claim 108,
wherein the first interface device is operable to receive the plurality of human
interface signals generated by the computing system and convert the plurality of human
interface signals into the format suitable for transmission to the second interface device;
and
wherein the second interface device is operable to receive the plurality of human
interface signals from the first interface device and convert the plurality of human
interface signals into the format suitable for transmission to the human interface.

110. (new): A computer network according to claim 109,
wherein the computing system is operable to generate the plurality of human
interface signals in a first format suitable for transmission to the human interface;
wherein the first interface device is operable to convert each of the plurality of
human interface signals into a second format suitable for transmission to the second
interface device.

111. (new): A computer network according to claim 110,

A1
CONT'D

wherein the second format is suitable for transmission over distances greater than 10 feet.

112. (new): A computer network according to claim 110,
wherein the second interface device is operable to receive the plurality of human interface signals in the second format and convert each of the plurality of human interface signals in the second format back to the first format suitable for transmission to the human interface.

113. (new): A computer network according to claim 108,
wherein the plurality of human interface signals includes a first human interface signal comprising the video information and a second human interface signal comprising the non-video information;

wherein the first interface device is operable to convert the first human interface signal into a first format suitable for transmission to the second interface device; and

wherein the first interface device is operable to convert the second human interface signal into a second different format suitable for transmission to the second interface device.

114. (new): A computer network according to claim 108,
wherein the plurality of human interface signals includes a first human interface signal comprising the video information and a second human interface signal comprising the non-video information;

wherein the transmission medium comprises a first transmission medium and a second transmission medium;

wherein the first human interface signal is transmitted to the second interface device via the first transmission medium; and

wherein the second human interface signal is transmitted to the second interface device via the second transmission medium.

115. (new): A computer network according to claim 108,

A1
CONT'D

wherein the first interface device is operable to combine the plurality of human interface signals into a combined signal including the video information and the non-video information having a format suitable for transmission to the second interface device;

wherein the combined signal is transmitted to the second interface device via the transmission medium;

wherein the second interface device is operable to receive the combined signal from the first interface device and separate the plurality of human interface signals for respective propagation to the plurality of human interface devices.

116. (new): A computer network according to claim 98,

wherein the computing system generates a plurality of human interface signals corresponding to a plurality of human interface devices, and wherein the plurality of human interface signals includes the video information and the non-video information;

wherein the first interface device is operable to receive each of the plurality of human interface signals generated by the computing system and convert each of the plurality of human interface signals into a format suitable for transmission to the second interface device;

wherein the second interface device is operable to receive each of the plurality of converted human interface signals from the first interface device and convert each of the plurality of converted human interface signals into a format suitable for transmission to the human interface.

117. (new): A computer network according to claim 116,

wherein the first interface device is operable to combine the plurality of human interface signals into a combined signal, including the video information and the non-video information, having a format suitable for transmission to the second interface device;

wherein the combined signal is transmitted to the second interface device via the transmission medium; and

A1
CONT'D

wherein the second interface device is operable to receive the combined signal from the first interface device and separate the plurality of human interface signals for respective propagation to the plurality of human interface devices.

118. (new): A computer network according to claim 117,
wherein the human interface comprises a display device and at least one input/output ("I/O") device;
wherein the second interface device is coupled to the display device and the at least one I/O device of the human interface; and
wherein the plurality of human interface signals include a video signal intended for the display device and at least one I/O signal intended for the I/O device.

119. (new): A computer network according to claim 98,
wherein the human interface comprises a display device and an input/output ("I/O") device;
wherein the second interface device is coupled to the display device and the I/O device of the human interface; and
wherein the video information is intended for the display device and the non-video information comprises I/O information intended for the I/O device.

120. (new): A computer network according to claim 119, wherein the I/O device of the human interface comprises either a keyboard or a mouse.

121. (new): A computer network according to claim 119,
wherein the first interface device is operable to include the video information and the I/O information in a combined video / I/O signal having a format suitable for transmission to the second interface device;
wherein the combined video / I/O signal is transmitted to the second interface device via the at least one transmission line;

AI
CONT'D

wherein the second interface device is operable to receive the combined video / I/O signal from the first interface device and separate the video information and the I/O information therefrom for respective provision to the display device and the I/O device.

122. (new): A computer network according to claim 98,
wherein the human interface comprises a display device and a plurality of input/output ("I/O") devices;
wherein the second interface device is coupled to the display device and the plurality of I/O devices of the human interface; and
wherein the human interface signals include a video signal comprising the video information intended for the display device and a plurality of I/O signals comprising the non-video information intended for the plurality of I/O devices.

123. (new): A computer network according to claim 98, wherein the at least one transmission line coupling the first and second interface devices is a cable comprising 4-wires.

124. (new): A computer network according to claim 98, wherein the human interface is located more than 10 feet from the computing system.

125. (new): A computer network according to claim 98,
wherein the human interface includes a human interface device;
wherein the second interface is operable to receive, from the human interface device, second human interface signals comprising second non-video data to be transmitted to the computing system and is operable to convert the second human interface signals into a format suitable for transmission to the first interface device;
wherein the converted second human interface signals are transmitted to the first interface device via the at transmission medium; and
wherein the first interface device is operable to receive the converted second human interface signals from the second interface device and provide the second human interface signals to the computing system.

A1
CONCL.

126. (new): A computer network according to claim 125,
wherein the human interface device is operable to generate the second human
interface signals in a first format suitable for transmission to the computing system; and
wherein the second interface device is operable to convert the second human
interface signals into a second format suitable for transmission to the first interface
device.

127. (new): A computer network according to claim 126,
wherein the second format is suitable for transmission over distances greater than
10 feet.

128. (new): A computer network according to claim 126,
wherein the first interface device is operable to receive the second human
interface signals in the second format and convert the second human interface signals
back to the first format suitable for transmission to the computing system.

129. (new): A computer network according to claim 98, wherein at least two of
the nodes are positioned at a common location, and wherein the computer network
includes a plurality of commonly located computing systems.

130. (new): A computer network according to claim 129, wherein the computing
systems respectively coupled to each one of the at least two nodes are housed together in
a common support structure located in a shared computer room.

131. (new): A computer network according to claim 98,
wherein the format is suitable for transmission over distances greater than 10 feet.
